AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Please amend the claims, as follows.

1. (Currently Amended) A method for processing replicating one or more data objects from a source system to a target system, in business applications, the method comprising:

creating an electronic data element comprising a first data field and a second data field, wherein the first data field contains data representing an identifier functioning as a link assignable to the one or more data objects and the second data field contains data representing represents a state of the identifier; in the first data field; and

<u>assigning associating</u> the identifier of the electronic data element with to the one or more data objects:

processing the one or more data objects in accordance with a software application;

storing the one or more processed data objects on the source system;

changing the state of the identifier in the electronic data element to indicate that

the one or more processed data objects are ready to be replicated from the source

system to the target system; and

replicating, in response to changing the state of the identifier, the one or more processed data objects from the source system to the target system.

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2. (Currently Amended) The method of claim 1, wherein the second data field may be is configured to store one of:

a) a first state, in which said electronic data element may be accessed by one or

more data object processing operations and whereby said identifier is assignable to one

or more data objects.

b) a second state, in which said electronic data element may not be accessed by

one or more data object processing operations and whereby said identifier is assignable

to one or more data objects, or

a third state, in which said electronic data element may not be accessed by

one or more data object processing operations and whereby said identifier is not

assignable to one or more data objects.

(Original) The method of claim 1, wherein the first data field and the second data

field are in a table.

4. (Original) The method of claim 1, wherein the first data field is in a first table and

the second data field is in a second table.

5. (Original) The method of claim 1, wherein the electronic data element is

implemented in object orientated programming as an instance of a class.

6. (Currently Amended) The method of claim 1, wherein the data structure electronic

data element further comprises a third data field functioning as a flag configured to store

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<u>data</u> representing whether the <u>electronic data element identifier stored in the first data</u>

field is the a default identifier.

7. (Original) The method of claim 2, further comprising changing the first data field

from the first state to the second state.

8. (Canceled)

9. (Currently Amended) The method of claim-87, further comprising changing the

second data field to the third state if-after the one or more assigned processed data

objects have been stored on the source system. are committed.

10. (Currently Amended) The method of claim 9, further comprising:

creating a new electronic data element comprising a first data field and a second

data field, wherein the first data field contains data representing an identifier assignable

to one or more data objects and the second data field contains data representing a state

of the identifier; and

setting the second field of the new electronic data element to the first state.

11. (Currently Amended) The method of claim 10, wherein the data structure new

electronic data element further comprises a third data field functioning as a flag-

configured to store data representing whether the electronic data element identifier

stored in the first data field of the new electronic data element is the a default identifier,

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and the method further comprising flagging storing data in the third data field of the new electronic data element to indicate that the first data field of the new electronic data element contains the default identifier. -as the default identifier.

- 12. (Currently Amended) The method of claim 10, further comprising setting the second field of the prior-electronic data element to the second state.
- 13. (Currently Amended) The method of claim—10_6, further comprising changing the third data field of the electronic data element from a value corresponding to the default identifier to a value corresponding to an identifier other than the default identifier.

 examining the third field of a previous electronic data element, and, if the third field of the previous electronic data element is flagged as the default identifier, the third field of the previous electronic data element is flagged as not being the default identifier.
- 14. (Original) The method of claim 2, further comprising: setting a block on the electronic data element; examining the second field of the electronic data element; and if the state of the second field of the electronic data element is the first state or the second state, preventing a change in the state of the second field to the third state.
- 15. (Currently Amended) The method of claim 14, removing the block if storing of the one or more data object objects is committed.

- 16. (Original) The method of claim 14, further comprising irreversibly setting the block if the electronic data element is in the third state.
- 17. (Original) The method claim 1, further comprising share locking the electronic data element.
- 18. (Currently Amended) The method of claim 17, further comprising share locking the electronic data element prior to association assigning the identifier of the electronic data element to the one or more data objects.
- 19. (Currently Amended) The method of claim 17, further comprising unlocking the share locking of the electronic data element after storing of the one or more data object objects is committed.
- 20. (Currently Amended) The method of claim 17, further comprising examining the state of the share lock of the data element prior to association assigning the identifier of the electronic data element to the one or more data objects.
- 21. (Canceled)
- 22. (Original) The method of claim 1, wherein the identifier of the first data field comprises a globally unique identifier.

- 23. (Original) The method of claim 1, wherein the identifier of the first data field comprises a time stamp.
- 24. (Currently Amended) A system for processing replicating one or more data objects from a source system to a target system in business applications, the system comprising:
 - a memory; and
 - a microprocessor coupled to the memory and programmed to:
 - create an electronic data element comprising a first data field and a second data field, wherein the first data field contains data representing an identifier functioning as a link assignable to the one or more data objects and the second data field represents contains data representing a state of the identifier; in the first data field; and assign associate the identifier of the electronic data element with to the one or more data objects;
 - process the one or more data objects in accordance with a software application;

store the one or more processed data objects on the source system;

change the state of the identifier in the electronic data element to indicate

that the one or more processed data objects are ready to be

replicated from the source system to the target system; and

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replicate, in response to changing the state of the identifier, the one or more processed data objects from the source system to the target system.

25. (Currently Amended) The system of claim 24, wherein the second data field-maybe is configured to store one of:

a) a first state, in which said electronic data element may be accessed by one or more data object processing operations and whereby said identifier is assignable to one or more data objects,

b) a second state, in which said electronic data element may not be accessed by one or more data object processing operations and whereby said identifier is assignable to one or more data objects, or

c) a third state, in which said electronic data element may not be accessed by one or more data object processing operations and whereby said identifier is not assignable to one or more data objects.

26. (Original) The system of claim 24, wherein the first data field and the second data field are in a table.

27. (Original) The system of claim 24, wherein the first data field is in a first table and the second data field is in a second table.

- 28. (Original) The system of claim 24, wherein the electronic data element is implemented in object orientated programming as an instance of a class.
- 29. (Currently Amended) The system of claim 24, wherein the data structure_

 electronic data element further comprises a third data field functioning as a flag

 configured to store data representing whether the electronic data element identifier

 stored in the first data field is the a default identifier.
- 30. (Original) The system of claim 25, wherein the microprocessor is further programmed to change the first data field from the first state to the second state.
- 31. (Canceled)
- 32. (Currently Amended) The system of claim-31_30, wherein the microprocessor is further programmed to change the second <u>data</u> field to the third state <u>if after</u> the one or more <u>assigned processed</u> data objects <u>have been stored on the source system.</u> <u>are eemmitted.</u>
- 33. (Currently Amended) The system of claim 32, wherein the microprocessor is further programmed to:

create a new electronic data element <u>comprising a first data field and a second</u>
data field, wherein the first data field contains data representing an identifier assignable

of the identifier; and

set the second field of the new electronic data element to the first state.

to one or more data objects and the second data field contains data representing a state

34. (Currently Amended) The system of claim 33, wherein the data structure new

electronic data element further comprises a third data field functioning as a flag-

configured to store data representing whether the electronic data element-identifier

stored in the first data field of the new electronic data element is the a default identifier.

and wherein the microprocessor is further programmed to flag-store data in the third

data field of the new electronic data element to indicate that the first data field of the

new electronic data element contains the default identifier. as the default identifier.

35. (Currently Amended) The system of claim 33, wherein the microprocessor is

further programmed to set the second field of the prior electronic data element to the

second state.

36. (Currently Amended) The system of claim-33 29, wherein the microprocessor is

further programmed to change the third data field of the electronic data element from a

value corresponding to the default identifier to a value corresponding to an identifier

other than the default identifier. examine the third field of a previous electronic data

element, and, if the third field of the previous electronic data element is flagged as the

default identifier, the third field of the previous electronic data element is flagged as not

being the default identifier.

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37. (Original) The system of claim 25, wherein the microprocessor is further programmed to:

set a block on the electronic data element;

examine the second field of the electronic data element; and

if the state of the second field of the electronic data element is the first state or the second state, prevent a change in the state of the second field to the third state.

- 38. (Currently Amended) The system of claim 37, wherein the microprocessor is further programmed to remove the block if storing of the <u>one or more</u> data <u>object objects</u> is committed.
- 39. (Original) The system of claim 37, wherein the microprocessor is further programmed to irreversibly set the block if the electronic data element is in the third state.
- 40. (Original) The system claim 24, wherein the microprocessor is further programmed to share lock the electronic data element.
- 41. (Currently Amended) The system of claim 40, wherein the microprocessor is further programmed to share lock the electronic data element prior to association assigning the identifier of the electronic data element to the one or more data objects.

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42. (Currently Amended) The system of claim 40, wherein the microprocessor is

further programmed to unlock the share locking of the electronic data element after

storing of the one or more data object objects is committed.

43. (Currently Amended) The system of claim 40, wherein the microprocessor is

further programmed to examine the state of the share lock of the data element prior to

association assigning the identifier of the electronic data element to the one or more

data objects.

44. (Canceled)

45. (Original) The system of claim 24, wherein the identifier of the first data field

comprises a globally unique identifier.

46. (Original) The system of claim 24, wherein the identifier of the first data field

comprises a time stamp.

Please add the following new claims 47-58:

47. (New) The method of claim 1, wherein the software application is a business

application.

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48. (New) The method of claim 47, wherein the business application is an enterprise resource planning software application.

49. (New) The method of claim 47, wherein the step of replicating the one or more data objects from the source system to the target system is performed by a software application other than the business application.

50. (New) The method of claim 1, wherein the one or more data objects includes at least one booking, accounting, invoicing, receipt, or voucher data object.

51. (New) The system of claim 24, wherein the software application is a business application.

52. (New) The system of claim 51, wherein the business application is an enterprise resource planning software application.

53. (New) The system of claim 51, wherein the microprocessor executes a software process other than the business application to replicate the one or more data objects from the source system to the target system.

54. (New) The system of claim 24, wherein the one or more data objects includes at least one booking, accounting, invoicing, receipt, or voucher data object.

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55. (New) The system of claim 24, wherein the microprocessor comprises one or more

processors.

56. (New) A system for replicating one or more data objects from a source system to

a target system, the system comprising:

means for creating an electronic data element comprising a first data field and a

second data field, wherein the first data field contains data representing an identifier

assignable to the one or more data objects and the second data field contains data

representing a state of the identifier;

means for assigning the identifier to the one or more data objects;

means for processing the one or more data objects in accordance with a

software application;

means for storing the one or more processed data objects on the source system;

means for changing the state of the identifier in the electronic data element to

indicate that the one or more processed data objects are ready to be replicated from the

source system to the target system; and

means for replicating, in response to changing the state of the identifier, the one

or more processed data objects from the source system to the target system.

57. (New) The system of claim 56, wherein the software application is a business

application.

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58. (New) The system of claim 57, wherein the business application is an enterprise resource planning software application.